



SEQUENCE LISTING

<110> Hahn, Klaus M.  
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Kraynov, Vadim  
Burton, Dennis R.  
Chamberlain, Chester  
The Scripps Research Institute et al.

<120> Labeled Peptides, Proteins and Antibodies and Processes and Intermediates Useful for their Preparation

<130> 1361.007US1

<140> US 09/839,577  
<141> 2001-04-20

<150> US 60/279,302  
<151> 2001-03-28

<150> PCT/US00/26821  
<151> 2000-09-29

<150> US 60/218,113  
<151> 2000-07-13

<160> 15

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<210> 1  
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1 5 10 15  
Glu His Thr Ile His Val Gly Phe Asp Ala Cys Thr Gly Glu Phe Thr  
20 25 30  
Gly Met Pro Glu Gln Trp Ala Arg Leu Leu Gln Thr  
35 40

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<220>  
<223> A synthetic peptide.

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<210> 3  
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<213> Artificial Sequence

<220>  
<223> A synthetic peptide.

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<221> SITE  
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<223> Xaa = SAOD = alpha-Boc-beta[N-(2-Chlorobenzylloxycarbonyl)-N-Methylaminoxy Acetyl]-alpha,beta-Diaminopropionic Acid [Boc-2-Cl-Z-(SA)Dapa-OH].

<221> SITE  
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<223> Xaa = MPAL = The C-terminal mercaptopropionyl-leucine group generated by cleavage of a peptide from TAMPAL resin.

<400> 3  
Leu Tyr Xaa Ala Gly Xaa  
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<210> 4  
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<220>  
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<400> 4  
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<221> SITE  
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<400> 5  
Leu Tyr Xaa Ala Gly Cys Arg Ala Asn Lys  
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<400> 6  
Cys Glu Tyr Arg Ile Asp Arg Val Arg Leu Phe Val Asp Lys Leu Asp  
1 5 10 15  
Asn Ile Ala Gln Val Pro Arg Val Gly Ala Ala His His His His  
20 25 30  
His

<210> 7  
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<212> PRT  
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<220>  
<223> A synthetic peptide.

<400> 7  
Cys Glu Tyr Arg Ile Asp Arg Val Arg Leu Phe Val Asp Lys Leu Asp  
1 5 10 15  
Asn Ile Ala Gln Val Pro Arg Val Gly Ala Ala His His His His  
20 25 30  
His

<210> 8  
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<221> SITE  
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<221> SITE  
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<223> Xaa = MPAL = The C-terminal mercaptopropionyl-leucine group generated by cleavage of a peptide from TAMPAL resin.

<400> 8  
Xaa Lys Lys Lys Glu Lys Glu Arg Pro Glu Ile Ser Leu Pro Ser Asp  
1 5 10 15  
Phe Glu His Thr Ile His Val Gly Phe Asp Ala Xaa  
20 25

<210> 9  
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<212> PRT  
<213> Homo sapiens

<400> 9  
Cys Thr Gly Glu Phe Thr Gly Met Pro Glu Gln Trp Ala Arg Leu Leu  
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<210> 10  
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<221> SITE  
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<221> SITE  
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<400> 11  
 Xaa Lys Lys Lys Glu Lys Glu Arg Pro Glu Ile Ser Leu Pro Ser Asp  
 1 5 10 15  
 Phe Glu His Thr Ile His Val Gly Phe Asp Ala Cys Thr Gly Glu Phe  
 20 25 30  
 Thr Gly Met Pro Glu Gln Trp Ala Arg Leu Leu Gln Thr  
 35 40 45

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<221> SITE  
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<400> 12  
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 20 25 30  
 His His His His His  
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<210> 13  
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 <212> PRT  
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 20 25 30  
 Ile Ser Lys Ala Asp Ile Gly Ala Pro Ser Gly Phe Lys His Val Ser  
 35 40 45  
 His Val Gly Trp Asp Pro Gln Asn Gly Phe Asp Val Asn Asn Leu Asp  
 50 55 60  
 Pro Asp Leu Arg Ser Leu Phe Ser Arg Ala Gly Ile Ser Glu Ala Gln  
 65 70 75 80

Leu Thr Asp Ala Glu Thr Ser Lys Leu Ile Tyr Asp Phe Ile Glu Asp  
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 Leu Pro Pro Pro Pro Pro Ser  
 115 120

<210> 14  
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 Gln Arg Leu Phe Glu Met Leu Gly Arg Lys Cys Leu Thr Leu Ala Thr  
 35 40 45  
 Ala Val Val Gln Leu Tyr Leu Ala Leu Pro Pro Gly Ala Glu His Trp  
 50 55 60  
 Thr Lys Glu His Cys Gly Ala Val Cys Phe Val Lys Asp Asn Pro Gln  
 65 70 75 80  
 Lys Ser Tyr Phe Ile Arg Leu Tyr Gly Leu Gln Ala Gly Arg Leu Leu  
 85 90 95  
 Trp Glu Gln Glu Leu Tyr Ser Gln Leu Val Tyr Ser Thr Pro Thr Pro  
 100 105 110  
 Phe Phe His Thr Phe Ala Gly Asp Asp Cys Gln Ala Gly Leu Asn Phe  
 115 120 125  
 Ala Asp Glu Asp Glu Ala Gln Ala Phe Arg Ala Leu Val Gln Glu Lys  
 130 135 140  
 Ile Gln Lys Arg Asn Gln Arg Gln Ser Gly Asp Arg Arg Gln Leu Pro  
 145 150 155 160  
 Pro Pro Pro Thr Pro Ala Asn Glu Glu Arg Arg Gly Gly Leu Pro Pro  
 165 170 175  
 Leu Pro Leu His Pro Gly Gly Asp Gln Gly Gly Pro Pro Val Gly Pro  
 180 185 190  
 Leu Ser Leu Gly Leu Ala Thr Val Asp Ile Gln Asn Pro Asp Ile Thr  
 195 200 205  
 Ser Ser Arg Tyr Arg Gly Leu Pro Ala Pro Gly Pro Ser Pro Ala Asp  
 210 215 220  
 Lys Lys Arg Ser Gly Lys Lys Ile Ser Lys Ala Asp Ile Gly Ala  
 225 230 235 240  
 Pro Ser Gly Phe Lys His Val Ser His Val Gly Trp Asp Pro Gln Asn  
 245 250 255  
 Gly Phe Asp Val Asn Asn Leu Asp Pro Asp Leu Arg Ser Leu Phe Ser  
 260 265 270  
 Arg Ala Gly Ile Ser Glu Ala Gln Leu Thr Asp Ala Glu Thr Ser Lys  
 275 280 285  
 Leu Ile Tyr Asp Phe Ile Glu Asp Gln Gly Gly Leu Glu Ala Val Arg  
 290 295 300  
 Gln Glu Met Arg Arg Gln Glu Pro Leu Pro Pro Pro Pro Pro Pro Ser  
 305 310 315 320  
 Arg Gly Gly Asn Gln Leu Pro Arg Pro Pro Ile Val Gly Gly Asn Lys  
 325 330 335  
 Gly Arg Ser Gly Pro Leu Pro Pro Val Pro Leu Gly Ile Ala Pro Pro  
 340 345 350  
 Pro Pro Thr Pro Arg Gly Pro Pro Pro Pro Gly Arg Gly Gly Pro Pro  
 355 360 365  
 Pro Pro Pro Pro Pro Ala Thr Gly Arg Ser Gly Pro Leu Pro Pro Pro  
 370 375 380

Pro Pro Gly Ala Gly Gly Pro Pro Met Pro Pro Pro Pro Pro Pro  
385 390 395 400  
Pro Pro Pro Pro Ser Ser Gly Asn Gly Pro Ala Pro Pro Pro Leu Pro  
405 410 415  
Pro Ala Leu Val Pro Ala Gly Gly Leu Ala Pro Gly Gly Arg Gly  
420 425 430  
Ala Leu Leu Asp Gln Ile Arg Gln Gly Ile Gln Leu Asn Lys Thr Pro  
435 440 445  
Gly Ala Pro Glu Ser Ser Ala Leu Gln Pro Pro Pro Gln Ser Ser Glu  
450 455 460  
Gly Leu Val Gly Ala Leu Met His Val Met Gln Lys Arg Ser Arg Ala  
465 470 475 480  
Ile His Ser Ser Asp Glu Gly Glu Asp Gln Ala Gly Asp Glu Asp Glu  
485 490 495  
Asp Asp Glu Trp Asp Asp  
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<210> 15

<211> 34

<212> PRT

<213> Artificial Sequence

<220>

<223> A synthetic peptide.

<400> 15

Cys Glu Met Ala Gln Leu Glu Lys Glu Val Gln Ala Leu Glu Ser Glu  
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Val Ala Ser Leu Glu Lys Glu Val Gln Ala Leu Glu Lys Glu Val Ala  
20 25 30  
Gln Arg